RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/835,976

DATE: 05/08/2001
TIME: 15:55:17

Input Set : A:\PTO.txt
Output Set: N:\CRF3\05082001\I835976.raw

Does Not Comply
Corrected Diskette Needed

see
pp 4-7

```
 3 <110> APPLICANT: Mount, David B.
 4        Delpire, Eric
 5        Gamba, Gerardo
 6        Alfred L. George, Jr.
 8 <120> TITLE OF INVENTION: PURIFIED AND ISOLATED POTASSIUM-CHLORIDE COTRANSPORTER NUCLEIC ACIDS
AND
 9        POLYPEPTIDES AND
10        THERAPEUTIC AND SCREENING METHODS USING SAME
12 <130> FILE REFERENCE: Attorney Docket No. 1242-26-2
14 <140> CURRENT APPLICATION NUMBER: US/09/835,976
15 <141> CURRENT FILING DATE: 2001-04-16
17 <160> NUMBER OF SEQ ID NOS: 131
19 <170> SOFTWARE: PatentIn Ver. 2.1
```

ERRORED SEQUENCES

p.4

```
4644 <210> SEQ ID NO: 16
4645 <211> LENGTH: 1150
4646 <212> TYPE: PRT
4647 <213> ORGANISM: Homo sapiens
4649 <220> FEATURE:
4650 <221> NAME/KEY: misc_feature
4651 <222> LOCATION: (35)
4652 <223> OTHER INFORMATION: Xaa=Leu or Ile
4654 <220> FEATURE:
4655 <221> NAME/KEY: misc_feature
4656 <222> LOCATION: (346)
4657 <223> OTHER INFORMATION: Xaa=Leu or Ile
4659 <220> FEATURE:
4660 <221> NAME/KEY: misc_feature
4661 <222> LOCATION: (789)
4662 <223> OTHER INFORMATION: Xaa=Leu or Ile
4664 <400> SEQUENCE: 16
4665 Met His Pro Pro Glu Thr Thr Thr Lys Met Ala Ser Val Arg Phe Met
4666  1               5                  10                  15
4668 Val Thr Pro Thr Lys Ile Asp Asp Ile Pro Gly Leu Ser Asp Thr Ser
4669              20                  25                  30
4671 Pro Asp Xaa Ser Ser Arg Ser Ser Arg Val Arg Phe Ser Ser Arg
4672          35                  40                  45
4674 Glu Ser Val Pro Glu Thr Ser Arg Ser Glu Pro Met Ser Glu Met Ser
4675          50                  55                  60
4677 Gly Ala Thr Thr Ser Leu Ala Thr Val Ala Leu Asp Pro Pro Ser Asp
4678  65                  70                  75                  80
4680 Arg Thr Ser His Pro Gln Asp Val Ile Glu Asp Leu Ser Gln Asn Ser
4681                  85                  90                  95
4683 Ile Thr Gly Glu His Ser Gln Leu Leu Asp Asp Gly His Lys Lys Ala
4684              100                 105                 110
```

```
4686 Arg Asn Ala Tyr Leu Asn Asn Ser Asn Tyr Glu Glu Gly Asp Glu Tyr
4687         115                 120                 125
4689 Phe Asp Lys Asn Leu Ala Leu Phe Glu Glu Glu Met Asp Thr Arg Pro
4690     130                 135                 140
4692 Lys Val Ser Ser Leu Leu Asn Arg Met Ala Asn Tyr Thr Asn Leu Thr
4693 145                 150                 155                 160
4695 Gln Gly Ala Lys Glu His Glu Glu Ala Glu Asn Ile Thr Glu Gly Lys
4696                 165                 170                 175
4698 Lys Lys Pro Thr Lys Thr Pro Gln Met Gly Thr Phe Met Gly Val Tyr
4699             180                 185                 190
4701 Leu Pro Cys Leu Gln Asn Ile Phe Gly Val Ile Leu Phe Leu Arg Leu
4702         195                 200                 205
4704 Thr Trp Val Val Gly Thr Ala Gly Val Leu Gln Ala Phe Ala Ile Val
4705     210                 215                 220
4707 Leu Ile Cys Cys Cys Cys Thr Met Leu Thr Ala Ile Ser Met Ser Ala
4708 225                 230                 235                 240
4710 Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr Phe Met Ile
4711                 245                 250                 255
4713 Ser Arg Ala Leu Gly Pro Glu Phe Gly Gly Ala Val.Gly Leu Cys Phe
4714             260                 265                 270
4716 Tyr Leu Gly Thr Thr Phe Ala Ala Ala Met Tyr Ile Leu Gly Ala Ile
4717         275                 280                 285
4719 Glu Ile Phe Leu Val Tyr Ile Val Pro Arg Ala Ala Ile Phe His Ser
4720     290                 295                 300
4722 Asp Asp Ala Leu Lys Glu Ser Ala Ala Met Leu Asn Asn Met Arg Val
4723 305                 310                 315                 320
4725 Tyr Gly Thr Ala Phe Leu Val Leu Met Val Leu Val Val Phe Ile Gly
4726             325                 330                 335
4728 Val Arg Tyr Val Asn Lys Phe Ala Ser Xaa Phe Leu Ala Cys Val Ile
4729             340                 345                 350
4731 Val Ser Ile Leu Ala Ile Tyr Ala Gly Ala Ile Lys Ser Ser Phe Ala
4732         355                 360                 365
4734 Pro Pro His Phe Pro Val Cys Met Leu Gly Asn Arg Thr Leu Ser Ser
4735     370                 375                 380
4737 Arg His Ile Asp Val Cys Ser Lys Thr Lys Glu Ile Asn Asn Met Thr
4738 385                 390                 395                 400
4740 Val Pro Ser Lys Leu Trp Gly Phe Phe Cys Asn Ser Ser Gln Phe Phe
4741             405                 410                 415
4743 Asn Ala Thr Cys Asp Glu Tyr Phe Val His Asn Asn Val Thr Ser Ile
4744             420                 425                 430
4746 Gln Gly Ile Pro Gly Leu Ala Ser Gly Ile Ile Thr Glu Asn Leu Trp
4747         435                 440                 445
4749 Ser Asn Tyr Leu Pro Lys Gly Glu Ile Ile Glu Lys Pro Ser Ala Lys
4750     450                 455                 460
4752 Ser Ser Asp Val Leu Gly Ser Leu Asn His Glu Tyr Val Leu Val Asp
4753 465                 470                 475                 480
4755 Ile Thr Thr Ser Phe Thr Leu Leu Val Gly Ile Phe Phe Pro Ser Val
4756             485                 490                 495
4758 Thr Gly Ile Met Ala Gly Ser Asn Arg Ser Gly Asp Leu Lys Asp Ala
```

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Input Set : A:\PTO.txt
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```
4759          500              505              510
4761 Gln Lys Ser Ile Pro Ile Gly Thr Ile Leu Ala Ile Leu Thr Thr Ser
4762         515              520              525
4764 Phe Val Tyr Leu Ser Asn Val Val Leu Phe Gly Ala Cys Ile Glu Gly
4765     530              535              540
4767 Val Val Leu Arg Asp Lys Phe Gly Asp Ala Val Lys Gly Asn Leu Val
4768 545              550              555              560
4770 Val Gly Thr Leu Ser Trp Pro Ser Pro Trp Val Ile Val Ile Gly Ser
4771             565              570              575
4773 Phe Phe Ser Thr Cys Gly Ala Gly Leu Gln Ser Leu Thr Gly Ala Pro
4774         580              585              590
4776 Arg Leu Leu Gln Ala Ile Ala Lys Asp Asn Ile Ile Pro Phe Leu Arg
4777         595              600              605
4779 Val Phe Gly His Ser Lys Ala Asn Gly Glu Pro Thr Trp Ala Leu Leu
4780     610              615              620
4782 Leu Thr Ala Ala Ile Ala Glu Leu Gly Ile Leu Ile Ala Ser Leu Asp
4783 625              630              635              640
4785 Leu Val Ala Pro Ile Leu Ser Met Phe Phe Leu Met Cys Tyr Leu Phe
4786             645              650              655
4788 Val Asn Leu Ala Cys Ala Leu Gln Thr Leu Leu Arg Thr Pro Asn Trp
4789         660              665              670
4791 Arg Pro Arg Phe Arg Tyr Tyr His Trp Ala Leu Ser Phe Met Gly Met
4792         675              680              685
4794 Ser Ile Cys Leu Ala Leu Met Phe Ile Ser Ser Trp Tyr Tyr Ala Ile
4795     690              695              700
4797 Val Ala Met Val Ile Ala Gly Met Ile Tyr Lys Tyr Ile Glu Tyr Gln
4798 705              710              715              720
4800 Gly Ala Glu Lys Glu Trp Gly Asp Gly Ile Arg Gly Leu Ser Leu Ser
4801             725              730              735
4803 Ala Ala Arg Phe Ala Leu Leu Arg Leu Glu Glu Gly Pro Pro His Thr
4804             740              745              750
4806 Lys Asn Trp Arg Pro Gln Leu Leu Val Leu Leu Lys Leu Asp Glu Asp
4807         755              760              765
4809 Leu His Val Lys His Pro Arg Leu Leu Thr Phe Ala Ser Gln Leu Lys
4810     770              775              780
4812 Ala Gly Lys Gly Xaa Thr Ile Val Gly Ser Val Ile Val Gly Asn Phe
4813 785              790              795              800
4815 Leu Glu Asn Tyr Gly Glu Ala Leu Ala Ala Glu Gln Thr Ile Lys His
4816             805              810              815
4818 Leu Met Glu Ala Glu Lys Val Lys Gly Phe Cys Gln Leu Val Val Ala
4819         820              825              830
4821 Ala Lys Leu Arg Glu Gly Ile Ser His Leu Ile Gln Ser Cys Gly Leu
4822         835              840              845
4824 Gly Gly Met Lys His Asn Thr Val Val Met Gly Trp Pro Asn Gly Trp
4825     850              855              860
4827 Arg Gln Ser Glu Asp Ala Arg Ala Trp Lys Thr Phe Ile Gly Thr Val
4828 865              870              875              880
4830 Arg Val Thr Thr Ala Ala His Leu Ala Leu Leu Val Ala Lys Asn Ile
4831             885              890              895
```

Input Set : A:\PTO.txt
Output Set: N:\CRF3\05082001\I835976.raw

```
4833 Ser Phe Phe Pro Ser Asn Val Glu Gln Phe Ser Glu Gly Asn Ile Asp
4834             900                 905                 910
4836 Val Trp Trp Ile Val His Asp Gly Gly Met Leu Met Leu Leu Pro Phe
4837         915                 920                 925
4839 Leu Leu Lys Gln His Lys Val Trp Arg Lys Cys Ser Ile Arg Ile Phe
4840         930                 935                 940
4842 Thr Val Ala Gln Leu Glu Asp Asn Ser Ile Gln Met Lys Lys Asp Leu
4843 945                 950                 955                 960
4845 Ala Thr Phe Leu Tyr His Leu Arg Ile Glu Ala Glu Val Glu Val Val
4846             965                 970                 975
4848 Glu Met His Asp Ser Asp Ile Ser Ala Tyr Thr Tyr Glu Arg Thr Leu
4849             980                 985                 990
4851 Met Met Glu Gln Arg Ser Gln Met Leu Arg His Met Arg Leu Ser Lys
4852         995                 1000                1005
4854 Thr Glu Arg Asp Arg Glu Ala Gln Leu Val Lys Asp Arg Asn Ser Met
4855     1010                1015                1020
4857 Leu Arg Leu Thr Ser Ile Gly Ser Asp Glu Asp Glu Glu Thr Glu Thr
E--> 4858 (025 )|025    1030                1035                1040
4860 Tyr Gln Glu Lys Val His Met Thr Trp Thr Lys Asp Lys Tyr Met Ala
4861             1045                1050                1055
4863 Ser Arg Gly Gln Lys Ala Lys Ser Met Glu Gly Phe Gln Asp Leu Leu
4864             1060                1065                1070
4866 Asn Met Arg Pro Asp Gln Ser Asn Val Arg Arg Met His Thr Ala Val
4867         1075                1080                1085
4869 Lys Leu Asn Glu Val Ile Val Asn Lys Ser His Glu Ala Lys Leu Val
4870     1090                1095                1100
4872 Leu Leu Asn Met Pro Gly Pro Pro Arg Asn Pro Glu Gly Asp Glu Asn
E--> 4873 (105 )|105    1110                1115                1120
4875 Tyr Met Glu Phe Leu Glu Val Leu Thr Glu Gly Leu Glu Arg Val Leu
4876             1125                1130                1135
4878 Leu Val Arg Gly Gly Gly Ser Glu Val Ile Thr Ile Tyr Ser
4879         1140                1145                1150
4882 <210> SEQ ID NO: 17
4883 <211> LENGTH: 712
4884 <212> TYPE: DNA
4885 <213> ORGANISM: Homo sapiens
4887 <400> SEQUENCE: 17
4888 agacaggaat ccggttctgc ccctgcatcc tcctctgctt caccctggctg tcagtagtgt 60
E--> 4890 gggttatttt ttc(n)gttat gcatgtgcac ctttcccacc agacccaagt ggattgtcga 120
4892 catcaaaaac accgggtggc tttgcataca cctcccccca gccagacctg tggggtattc 180
E--> 4894 acctgata(n) caacaggtgg ccgggtgtac accttttagc aatctgatcc acgctatagt 240
4896 cgcctgataa aggtttgcct gcacgcactt ggcccaacta gaacccgtgg gacactcacc 300
4898 agataaagga cttacctcga caggaaactg ggggctgagg ggaggggaggc ttcatctgct 360
4900 gccctgagac catggcactg agccttcagc cccggaccag aggggttagc taggtagctc 420
4902 ttcattctga aggaaagaag tcacacaaga ttggcattgt tttgtctttt tgttttttgt 480
4904 ttttttctct cttaaaaaat atattcacct attggtgatg cactttctag gacagtcggc 540
4906 ttgaattctg agtagaagta ttcttagttg gggctttgtg tgtggtgtga atcaaggtta 600
4908 ttgaaatgtg ttatttttca agttatcttt tgtattgcag tcaaaagtag ctagcgtaag 660
4910 aggaagattt tgcgaggttc cccccacttt ttttgttctt aaaaagaaca aa 712
```

When numbering the first amino acid on a line, begin the number directly under the first letter of the amino acid.

see item 10 on Error Summary Sheet

```
4913 <210> SEQ ID NO: 18
4914 <211> LENGTH: 1014
4915 <212> TYPE: DNA
4916 <213> ORGANISM: mouse
4918 <400> SEQUENCE: 18
4919 tagccgccgc ctccagctcc tttgccagga cgagacctct gggaggcagg aatccactct 60
4921 gcttcggcat cctctcgtgg ctctcctctt tctccttcct gtagtgtggg ggtattttcc 120
4923 cgttatgcat gcgcatctct cccaccagac ccaagtggat tatcgacctc aaaaacatcg 180
4925 ggtggctcag cacacacctc ctcccagcca gacctgtggg gtattcacct gatacacaac 240
4927 aggtggctgg tgcacacctt tgcgcaatct gatccacgct cttatacgcc tgataagggt 300
4929 gggcctgcat gctccgtcct cagctagaac cgtgggacac tcggcagata aaggactaac 360
4931 tacctcatcc ggaccctggg ggttgagcag agggaggcgt caccagctgc tgtgagatca 420
4933 tggcacggag cccacagccc tggaccaggg gagatagcta ggattctgaa agaaccaagt 480
4935 tatacaggat tagcatcgtt ttgttcttat tttgtttct cgaanttat ttttcagtta 540
4937 ctggtggggc actttataaa acagctggct tgaattctat acacggattc ttaattgggc 600
4939 ctttgtgggc tgtaaatcag ggtaattgag ggttttttggt tttttttccc cttctatttt 660
4941 tgcaatcaga agtagctagt gtaggaggaa gagtttttgt gagctttttcc ttttttcttt 720
4943 gtcaaaaagg aaaggggggg gaaaatgcat ccaccagaag ccaccaccaa gatgtcctca 780
4945 gttcggttca tggtgacacc aactaagatt gatgacattc caggtttgtc agacaccagc 840
4947 ccggacctca gctctcggtc tagttctcga gtaagattta gctcccgaga aagtgtgcca 900
4949 gaaacaagcc gtagtgagcc tatgagcgaa ctgtctgggg ctactacttc tctggcaact 960
4951 gttgccctag atccttccag tgaccggact tctaatcccc aggatgttac ggag      1014
4954 <210> SEQ ID NO: 19
4955 <211> LENGTH: 744
4956 <212> TYPE: DNA
4957 <213> ORGANISM: mouse
4959 <400> SEQUENCE: 19
4960 aagtagatgt ttcacctgaa ggaggagaga agcctttcac tgactcttgc aaggttttcc 60
4962 catatgcttt gaacttaagc aacaatggaa accgtccttt tgttttctga gttgacatag 120
4964 tgccagtctt cattaaagag ggtagtttgt gaaataaagt gttccctgat ctttctcgtg 180
4966 tgaagtaaaa ggacagatga tgagtaaggt tgagatgatg gaaccagag aagtggcaat 240
4968 aaattaaagg aaacaagtgg gagacacagg gtggacagct cttgatgagc tcacgggctt 300
4970 tagctttctg ccgcctggag aaactgccca gacagttgga gttctacagg ttaataacaa 360
4972 taagctgggg tggagtgctt aagccttttta agagaatgat aaacagggcg gaaggcgtgt 420
4974 cttcaagcgt cccactccct tggggctatg gtcacgtggg ctcagtactt cccgattccc 480
4976 agccactgtc tccctaggct gtgctctgag tgtggaggga gagaggcagg gacgcacggg 540
4978 aaggaaattt aaacgctgaa agcaagggtc tgtngtaag aacaatgccg cacttcactg 600
4980 tgaccaaggt agaagaccca gaggagggggg cagctggccc cctctctcct gagcccagct 660
4982 cagcagaagt aaaagcccgg attcaggatc cccaagaacc aggtaagtcc tgcgcttgta 720
4984 gcgtcggggg acccacagac tagt                                        744
5321 <210> SEQ ID NO: 46
5322 <211> LENGTH: 315
5323 <212> TYPE: DNA
5324 <213> ORGANISM: Homo sapiens
5326 <400> SEQUENCE: 46
5327 gtgggggcag agaaacatgg aggaggagca cacctggggt gttcgtaatg atgaggactg 60
5329 cagagactga tgctggcctc cctggcaggc cccacgcatg ggcaccttca tgggcgtgta 120
5331 cctgccgtgc ctgcagaaca tctttggcgt catcctcttc ctgcggctca cctgggtggt 180
5333 gggcattgca ggcatcatgg agtccttctg catggtgttc atctgctgct cctgtgtgag 240
```

E--> 4935 (annotations: "item 10" ×2, "next page")

RAW SEQUENCE LISTING
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Input Set : A:\PTO.txt
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```
E--> 5335 tgacacccct cccctcacca cccctgaca gctggggctt ggcagaggcc tggggggtgg 300
     5337 gaggtgggag gatgg                                                   315
     6892 <210> SEQ ID NO: 113
     6893 <211> LENGTH: 361
     6894 <212> TYPE: PRT
     6895 <213> ORGANISM: Xenopus laevis      P.7 (next page)
     6897 <400> SEQUENCE: 113
     6898 Arg His Glu Gly Thr Val Leu Leu Gly Asp Tyr Leu Asp Ser His Ala
     6899  1               5                  10                  15
     6901 Glu Ser Gln Ala Ala Glu Gln Ala Leu Lys His Leu Met Glu Gln Glu
     6902             20                  25                  30
     6904 Lys Val Lys Gly Phe Cys Gln Val Val Ala Gln Lys Leu Lys Glu
     6905         35                  40                  45
     6907 Gly Leu Ser His Leu Ile Gln Ser Cys Gly Leu Gly Gly Met Arg His
     6908     50                  55                  60
     6910 Asn Thr Val Ile Met Ser Trp Pro Ser Ser Trp Arg Gln Ser Asp Asp
     6911  65              70                  75                  80
     6913 Ser Arg Ala Trp Lys Ser Phe Ile Thr Thr Ile Arg Val Thr Thr Ala
     6914             85                  90                  95
     6916 Ala Arg Gln Ala Leu Leu Val Ala Lys Asn Val Ser Phe Phe Pro Gly
     6917             100                 105                 110
     6919 Ser Arg Glu Thr Leu Ala Glu Gly His Ile Asp Val Trp Trp Ile Val
     6920         115                 120                 125
     6922 His Asp Gly Gly Met Leu Met Leu Leu Pro Phe Leu Leu Lys Gln His
     6923     130                 135                 140
     6925 Lys Val Trp Arg Lys Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met
     6926 145                 150                 155                 160
     6928 Glu Asp Asn Ser Ile Gln Met Lys Lys Asp Leu Ala Thr Phe Leu Tyr
     6929             165                 170                 175
     6931 His Leu Arg Ile Ala Ala Asp Val Glu Val Val Glu Met His Asp Ser
     6932             180                 185                 190
     6934 Asp Ile Ser Ala Tyr Thr Tyr Glu Arg Thr Leu Met Met Glu Gln Arg
     6935         195                 200                 205
     6937 Ser Gln Met Leu Arg Gln Met Arg Leu Ser Lys Thr Asp Arg Glu Arg
     6938     210                 215                 220
     6940 Glu Ala Gln Leu Val Lys Asp Arg Asn Ser Ile Leu Arg Leu Thr Ser
     6941 225                 230                 235                 240
     6943 Val Gly Ser Asp Asp Asp Glu Asp Thr Glu Ala Ala Pro Glu Arg Val
     6944             245                 250                 255
     6946 His Met Thr Trp Thr Arg Asp Lys His His Ala Val Arg Val Ala Gln
     6947         260                 265                 270
     6949 Ser Lys Pro Met Pro Ser Cys Gln Asp Leu Leu Asn Ile Arg Pro Asp
     6950     275                 280                 285
     6952 Gln Ser Asn Val Arg Arg Met His Thr Ala Val Lys Leu Asn Glu Val
     6953     290                 295                 300
     6955 Ile Val Asn Lys Ser His Asp Ala Lys Leu Val Leu Leu Asn Met Pro
     6956 305                 310                 315                 320
     6958 Gly Pro Pro Arg Asn Pro Gln Gly Asp Glu Asn Tyr Met Glu Phe Leu
     6959             325                 330                 335
```

RAW SEQUENCE LISTING   DATE: 05/08/2001
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Input Set : A:\PTO.txt
Output Set: N:\CRF3\05082001\I835976.raw

```
E--> 6961 Glu Val Leu Thr Glu Gly Leu Glu Arg Val Leu Val Val Arg Gly Gly   (x) delete
     6962             340             345             350
     6964 Gly Thr Glu Val Ile Thr Ile Tyr Ser
E--> 6965             355             360
```

FYI

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.

```
VERIFICATION SUMMARY                         DATE: 05/08/2001
PATENT APPLICATION:  US/09/835,976           TIME: 15:55:19

        Input Set : A:\PTO.txt
        Output Set: N:\CRF3\05082001\I835976.raw
```

```
L:14 M:270 C: Current Application Number differs, Replaced Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:1062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:1239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:1630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:2063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:2510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:2982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:3063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:3143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:3144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:3203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:3204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/835,976**

DATE: 05/08/2001
TIME: 15:55:19

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF3\05082001\I835976.raw**

```
L:3343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:3344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:3524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:3569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:4858 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16
M:332 Repeated in SeqNo=16
L:4890 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
M:340 Repeated in SeqNo=17
L:4935 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
L:4978 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19
L:5335 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46
L:6680 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:111
L:6808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:112
L:6961 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:6961 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:6965 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:113
L:6965 M:252 E: No. of Seq. differs, <211>LENGTH:Input:361 Found:362 SEQ:113
L:7159 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:131
```